

## PMJ-D Series Near Infrared Polarization Maintaining Fiber Patchcords



### Product Description:

Connet PMJ-D series near infrared polarization maintaining fiber patchcords are specially designed for near infrared wavelength applications, ranging from 900nm to 1650nm. The typical working wavelength is 980nm, 1064nm, 1310nm and 1550nm.

Connet PMJ-D series near infrared polarization maintaining fiber patchcords adopt PANDA type polarization maintaining fiber and the slow Axis alignment, along with high-precision FC fiber connectors and ceramic ferrules for high quality.

Connet uses each of the most demanding processes to carefully craft each polarization-maintaining fiber patchcords to ensure high return loss and high polarization extinction ratio(PER), concentricity deviation, control of shaft angle deviation and strict reliability experiments make these polarization-maintaining fiber patchcords meet the industry's highest quality standards.

Connet PMJ-D series near infrared polarization maintaining fiber patchcords use Narrow Key (2.0mm) FC fiber optic connectors with multiple connection options, including FC / UPC, FC / APC, and hybrid FC / UPC to FC / APC patchcords.

### Applications:

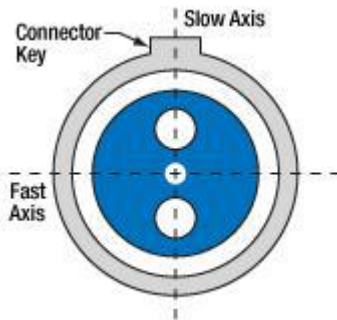
- Laser to PMF coupling
- Fiber Optic sensing
- Coherent communication
- Component pigtails
- Other scientific research

### Features:

- Narrow key FC connector
- High PER
- High return loss
- Low insertion loss
- PANDA PMF

### Specifications:

Parameter	Unit	Specification			
Part no.		PMJ-D-980	PMJ-D-1064	PMJ-D-1310	PMJ-D-1550
Fiber type		PM980B-XP	PM980B-XP	PM1300B-XP	PM1550B-XP
Operating wavelength	nm	970-1550	970-1550	1270-1625	1440-1625
Core diameter	um	5.5	5.5	8.0	8.5
MFD	um	6.6 ± 0.5@980 nm	6.6 ± 0.5@980 nm	9.3± 0.5@1300 nm	10.1±0.4@1550nm
Core NA	NA	0.12	0.12	0.12	0.12
Cut-off wavelength	nm	920 ± 50	920 ± 50	1210 ± 60	1380 ± 60
Core attenuation	dB/km	≤ 2.5 @ 980nm	≤ 2.5 @ 980nm	≤ 1.0 @1300 nm	≤ 0.5 @1550 nm
Beat length	mm	≤ 2.7 @ 980 nm	≤ 2.7 @ 980 nm	≤ 4.0 @1300 nm	≤ 5.0 @ 1550 nm
Connector type		FC/UPC FC/APC	FC/UPC FC/APC	FC/UPC FC/APC	FC/UPC FC/APC
Connector key	mm	Narrow key 2.0±0.02			
Key alignment type		Narrow key aligned to slow axis			
Return loss(FC/UPC)	dB	>55	>55	>55	>55
Return loss(FC/APC)	dB	>65	>65	>65	>65
Insertion loss	dB	<0.5	<0.5	<0.5	<0.5
Polarization extinction ratio (PER)	dB	>23	>23	>25	>25
Jacket	mm	0.9, 2.0, 3.0			
Fiber length	m	1, 2, 3, 5, 10			
Tolerance	cm	1~10			
Operating temperature	°C	-20~+70			
Storage temperature	°C	-40~+85			



### Ordering information:

- PPMJ-D-980-FA/FA-09-050: PMJ-D series 980nm polarization maintaining fiber patchcords; 5m length ,0.9mm jacket, FC/APC-FC/APC
- PMJ-D-1064-FA/FA-09-050: PMJ-D series 1064nm polarization maintaining fiber patchcords; 5m length ,0.9mm jacket, FC/APC-FC/APC
- PMJ-D-1310-FU/FU-30-005: PMJ-D series 1310nm polarization maintaining fiber patchcords; 0.5m length, 3.0mm jacket, FC/UPC-FC/UPC
- PMJ-D-1550-FA/FA-20-100-A: PMJ-D series 1550nm polarization maintaining fiber patchcords; 10m length, 2.0mm jacket, Armored FC/APC-FC/APC